

FIG. 1

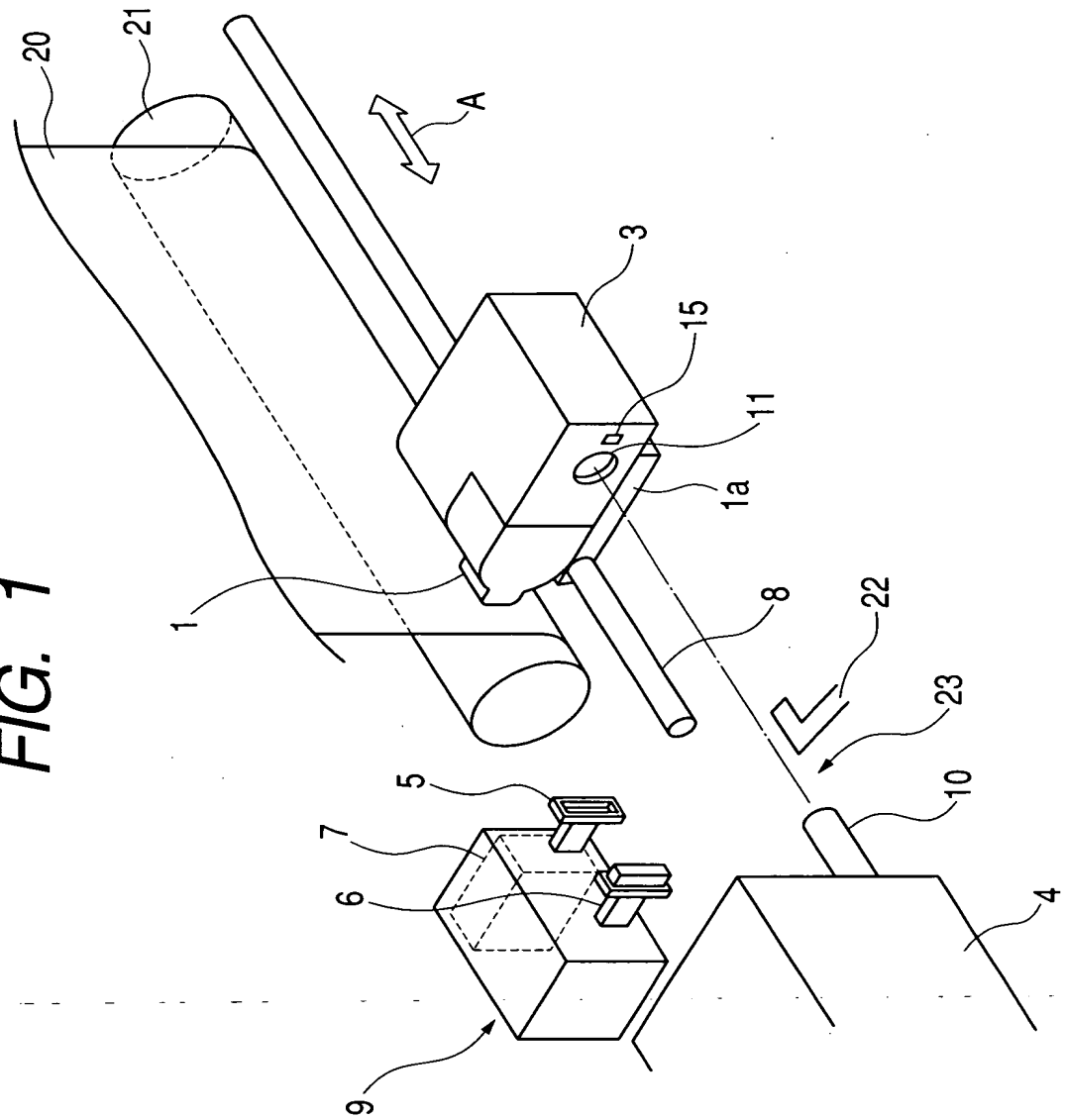


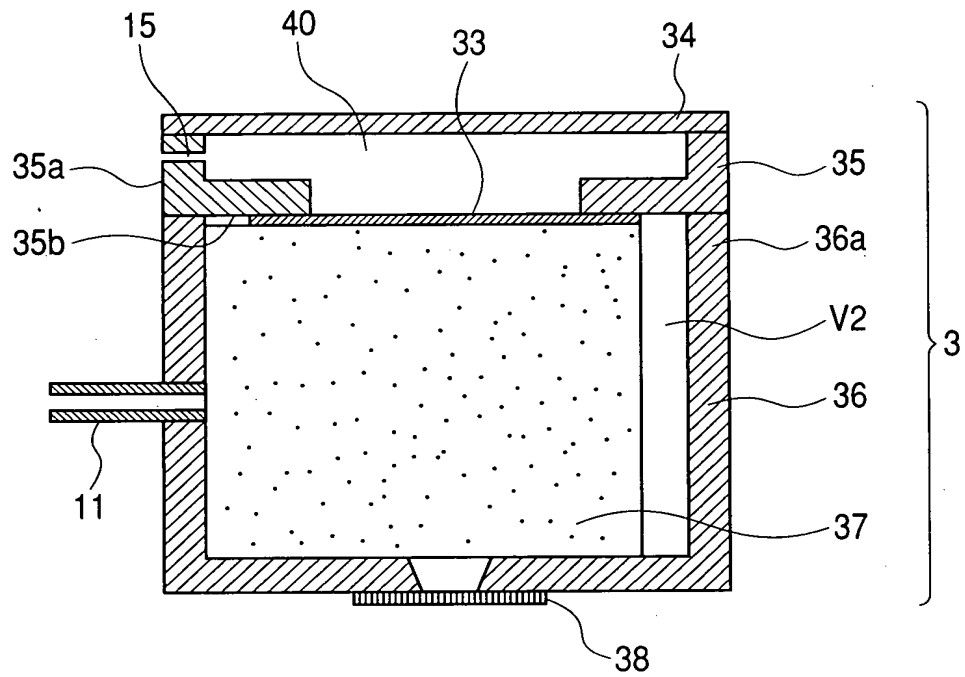
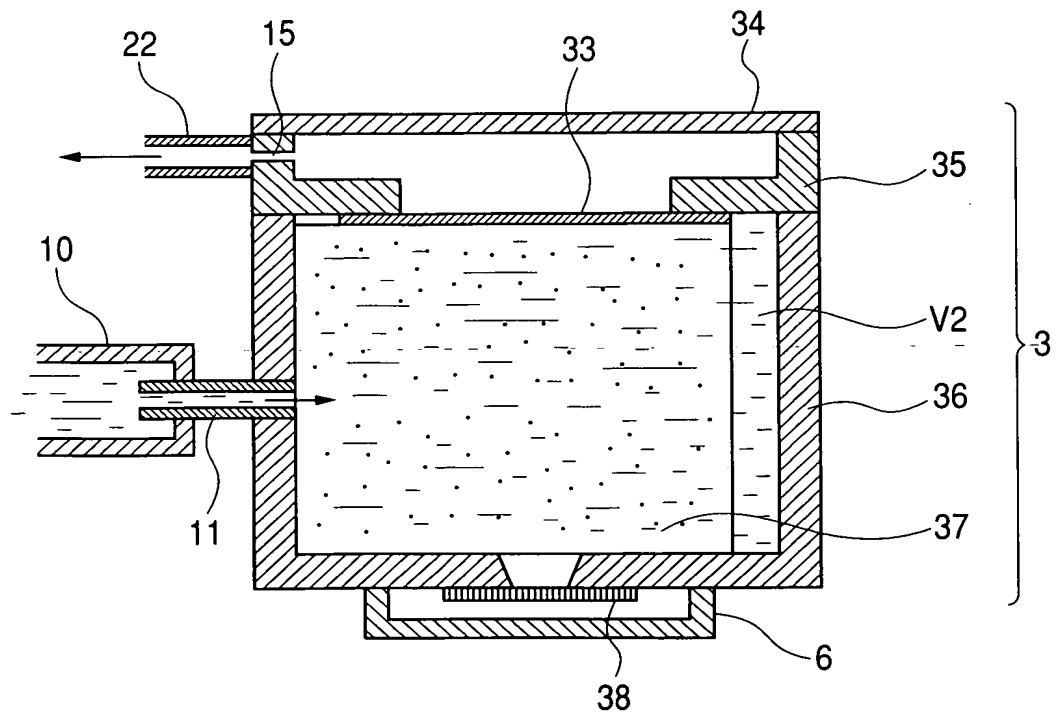
FIG. 2**FIG. 3**

FIG. 4

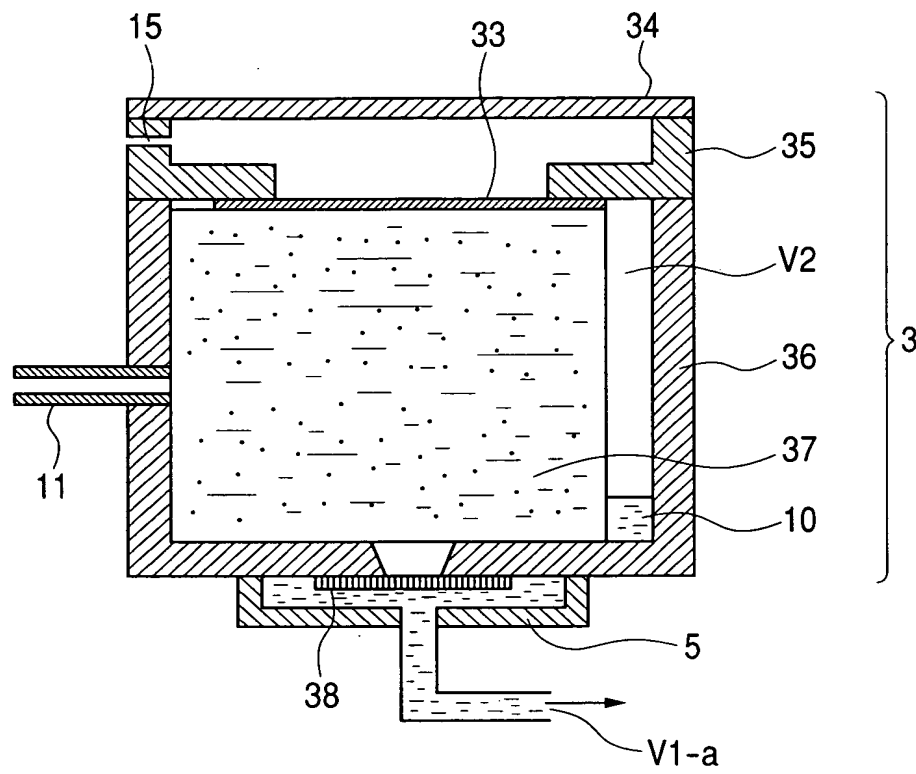


FIG. 5

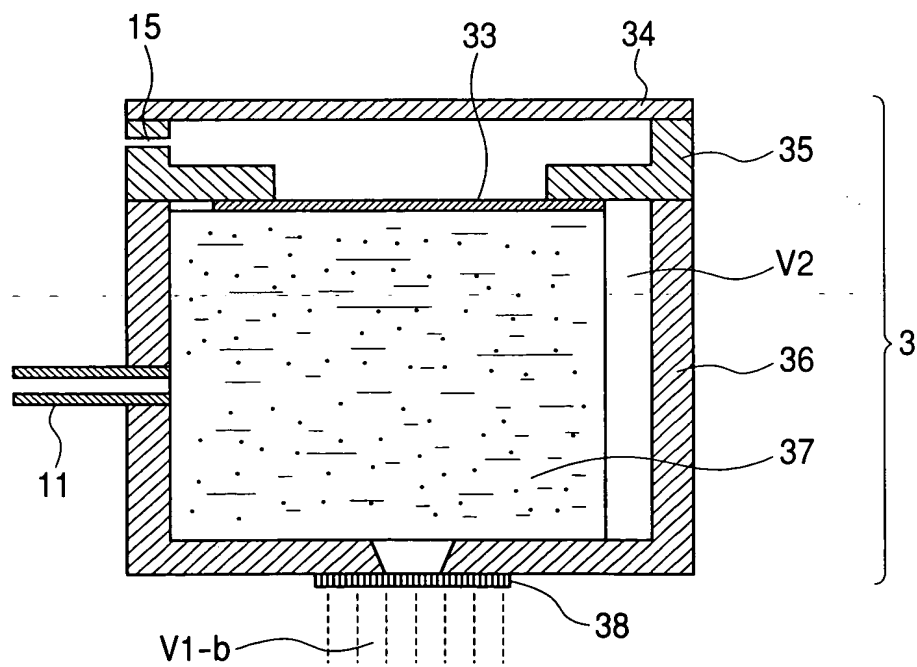


FIG. 6

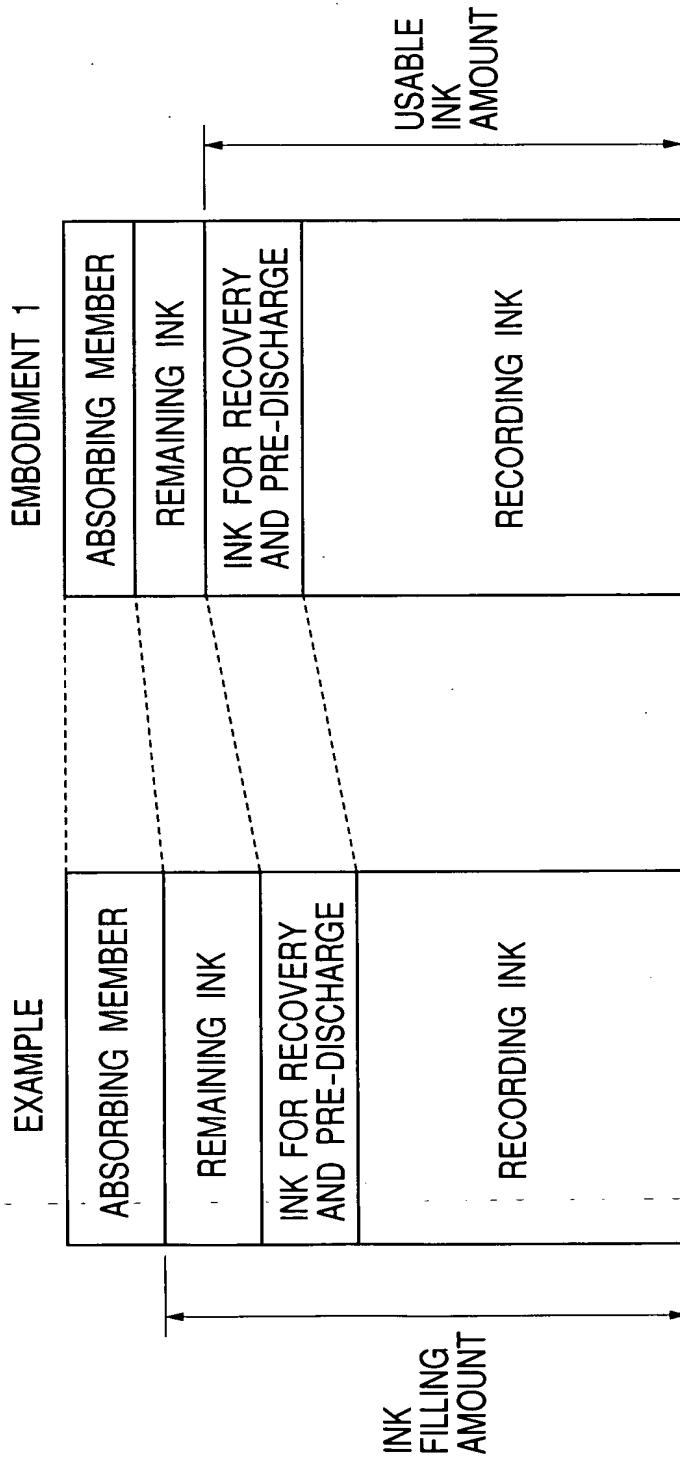


FIG. 7

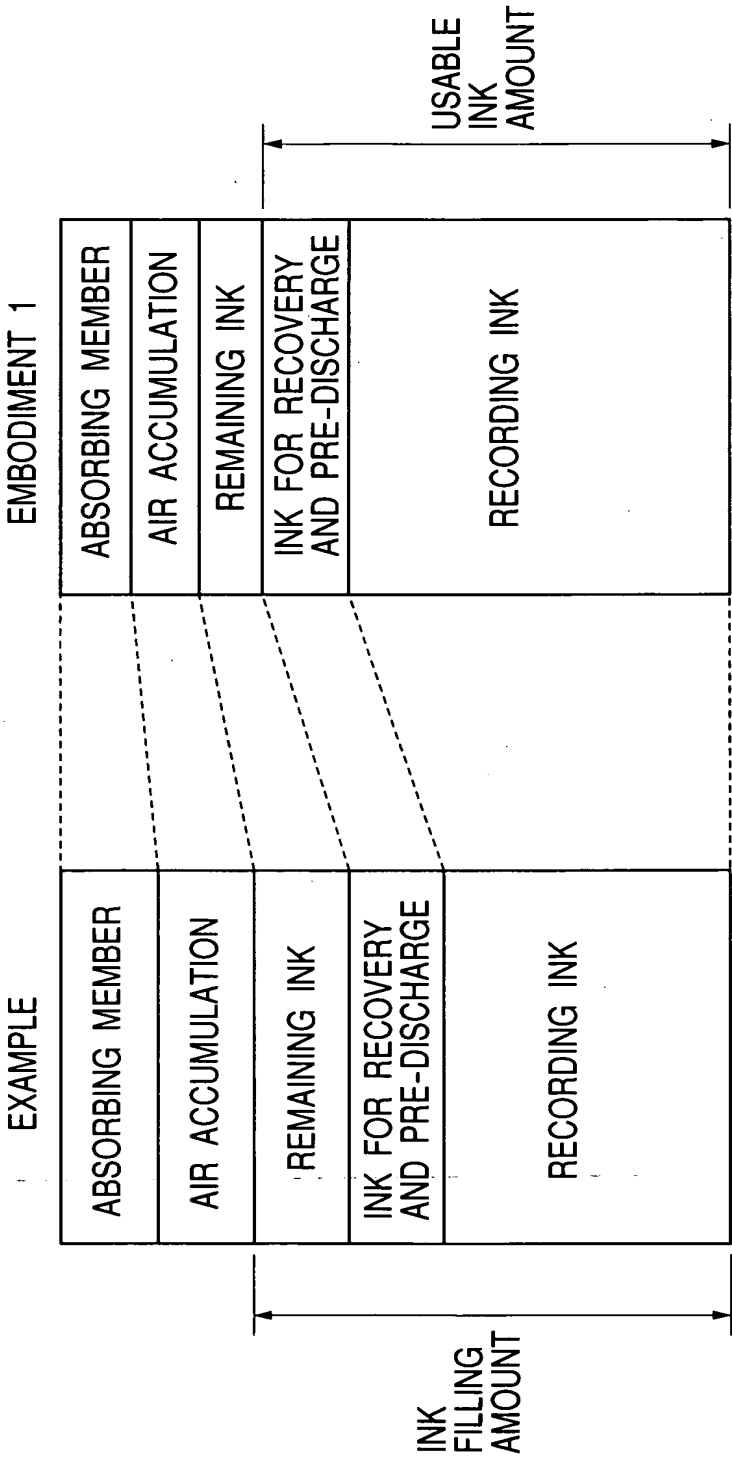


FIG. 8A

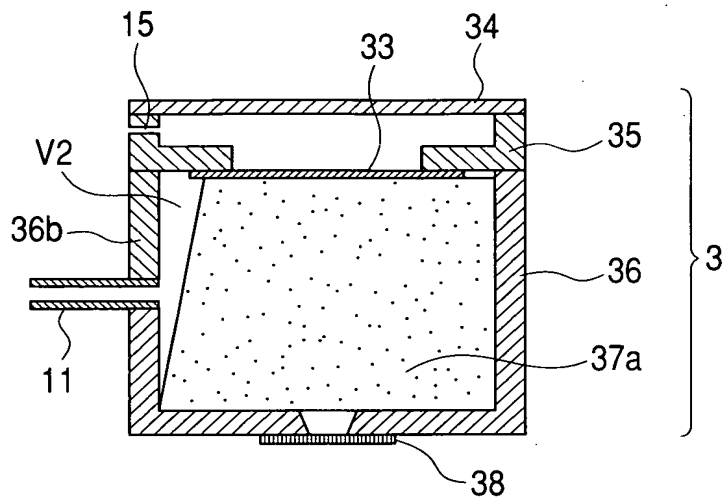


FIG. 8B

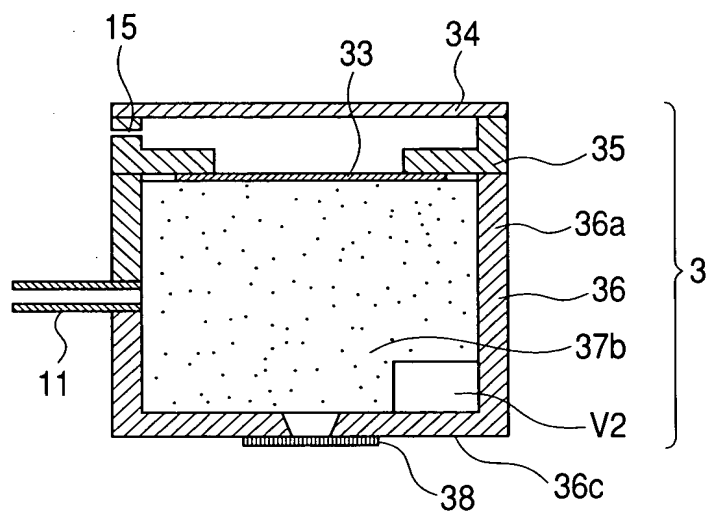


FIG. 8C

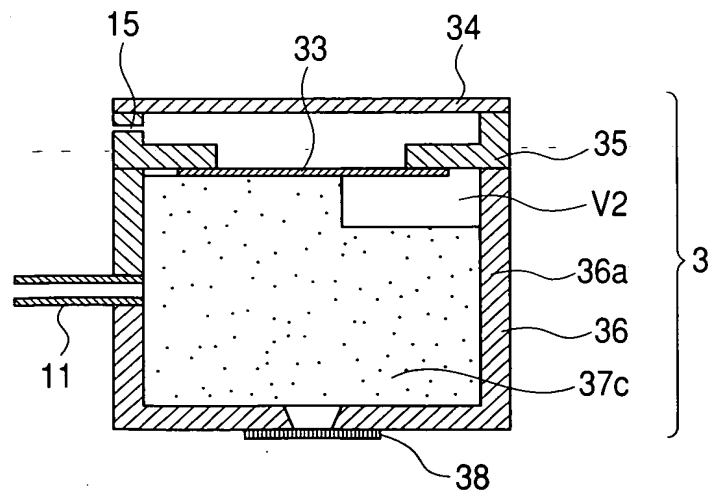


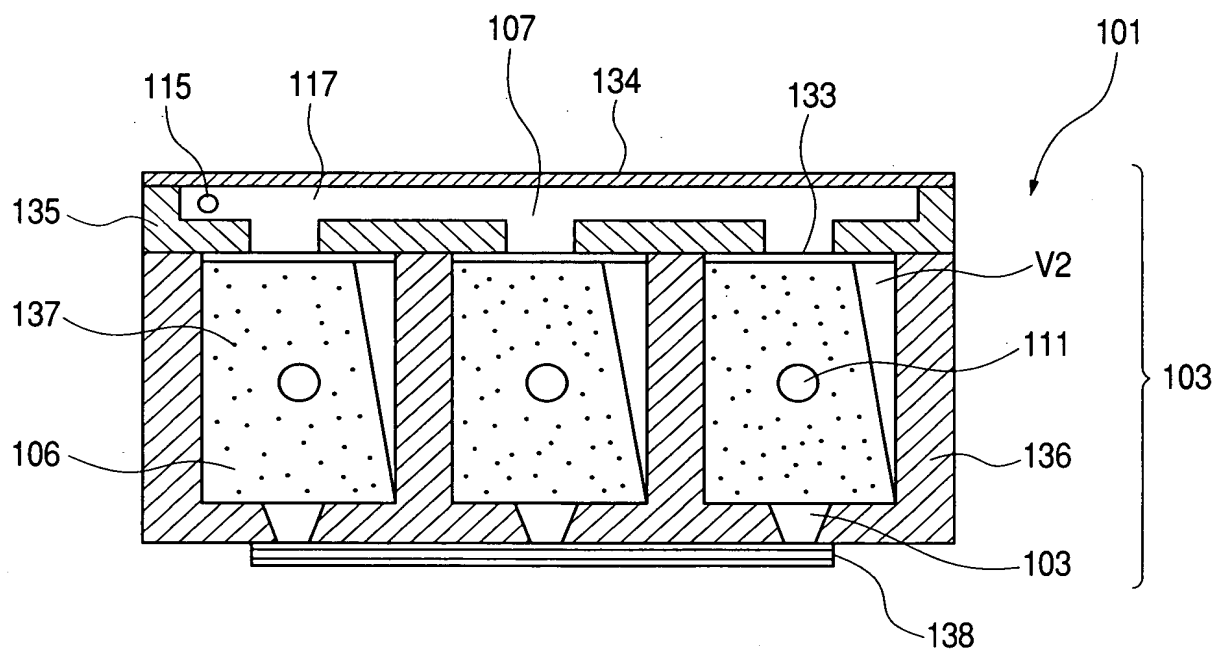
FIG. 9

FIG. 10

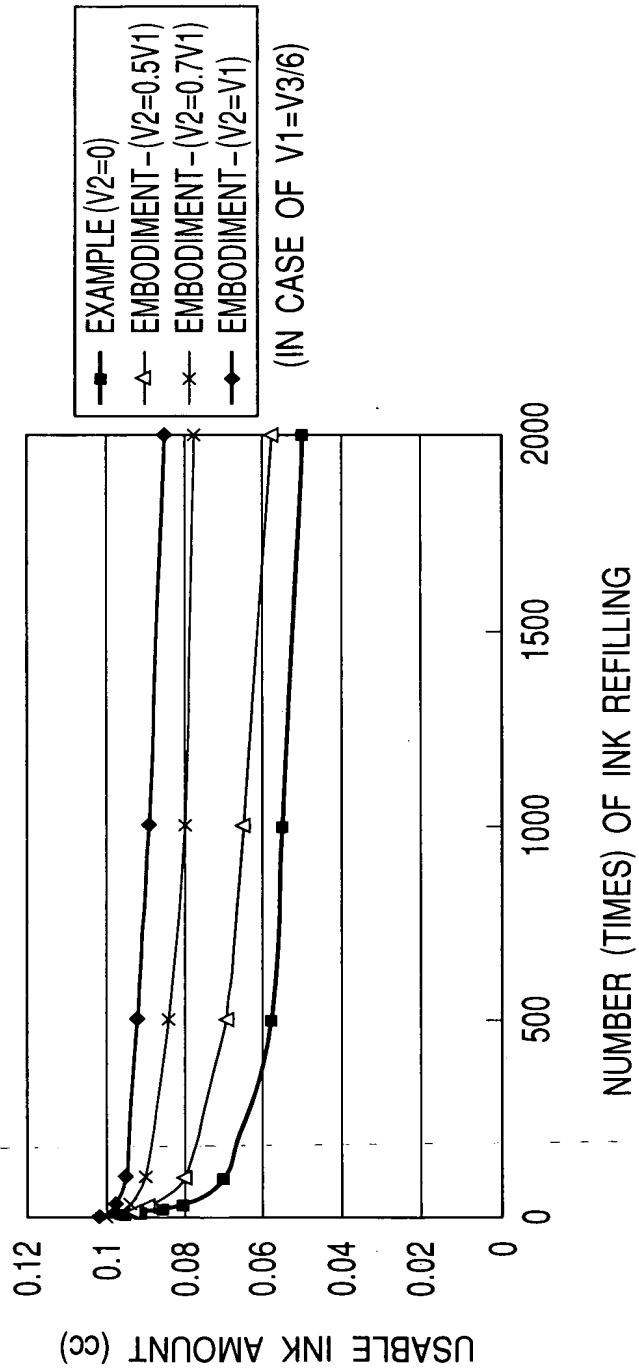


FIG. 11

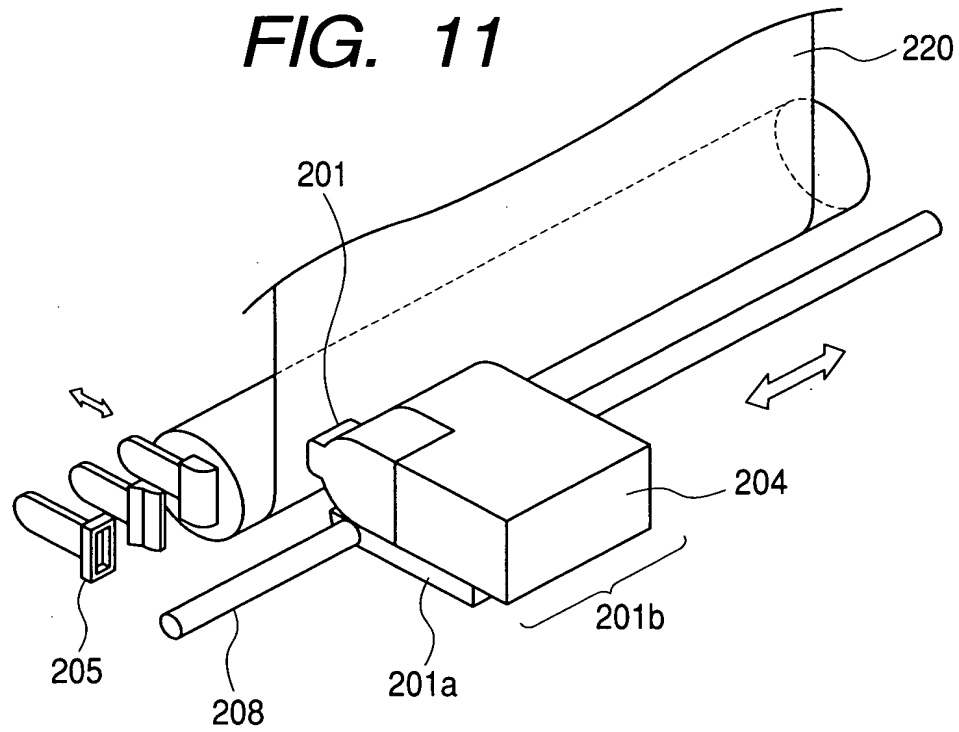


FIG. 12

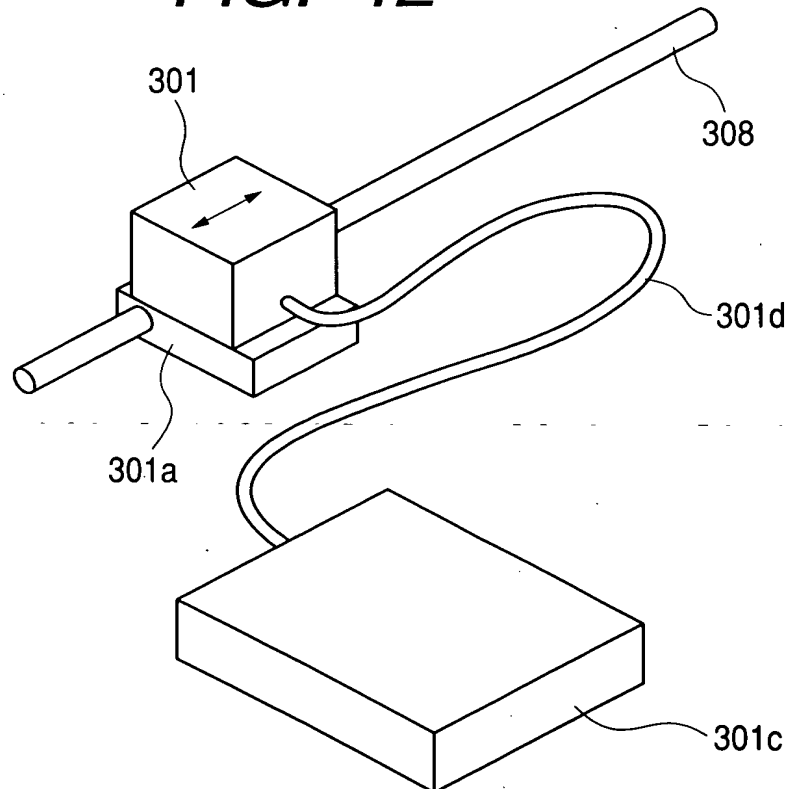


FIG. 13

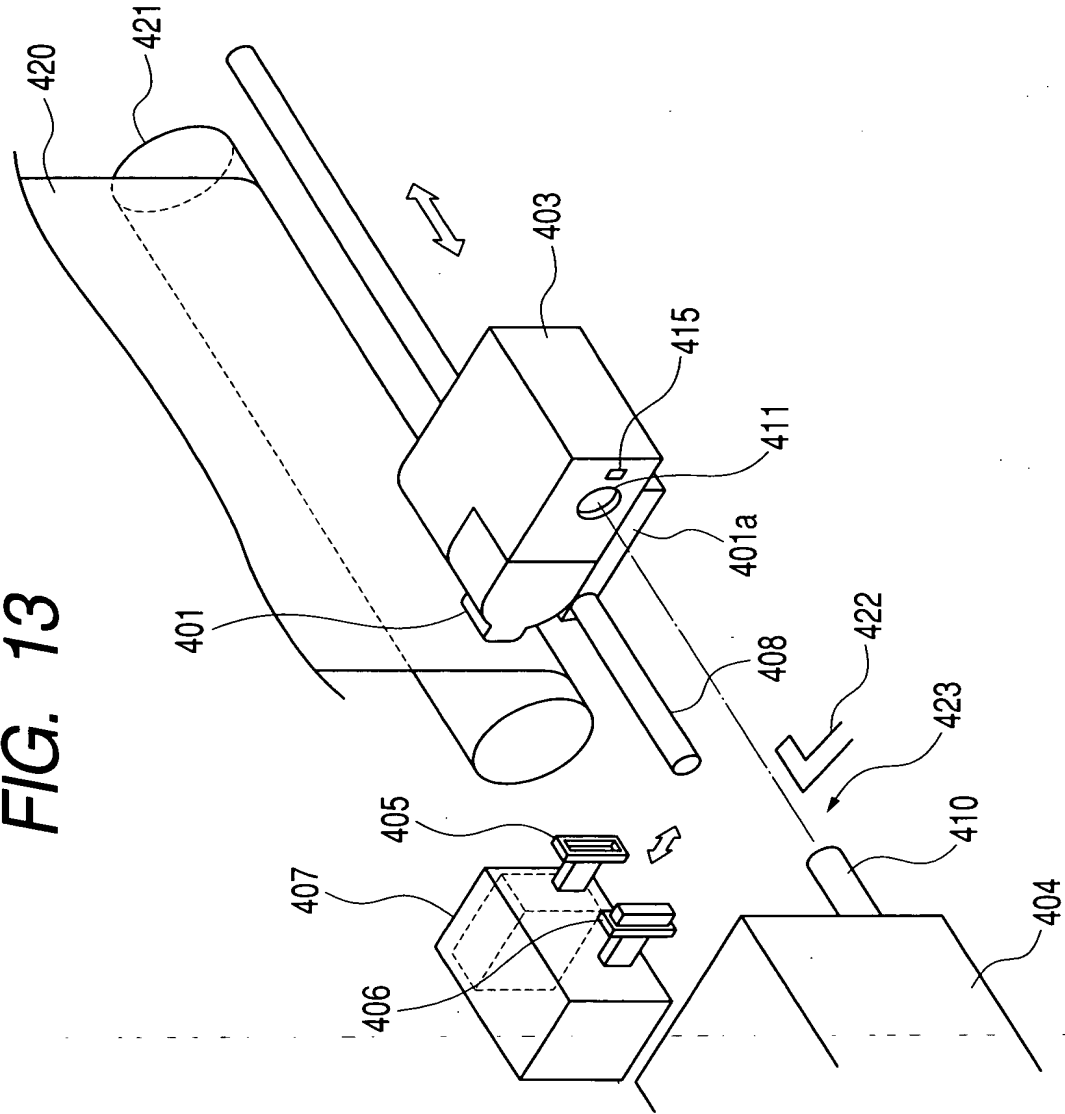


FIG. 14

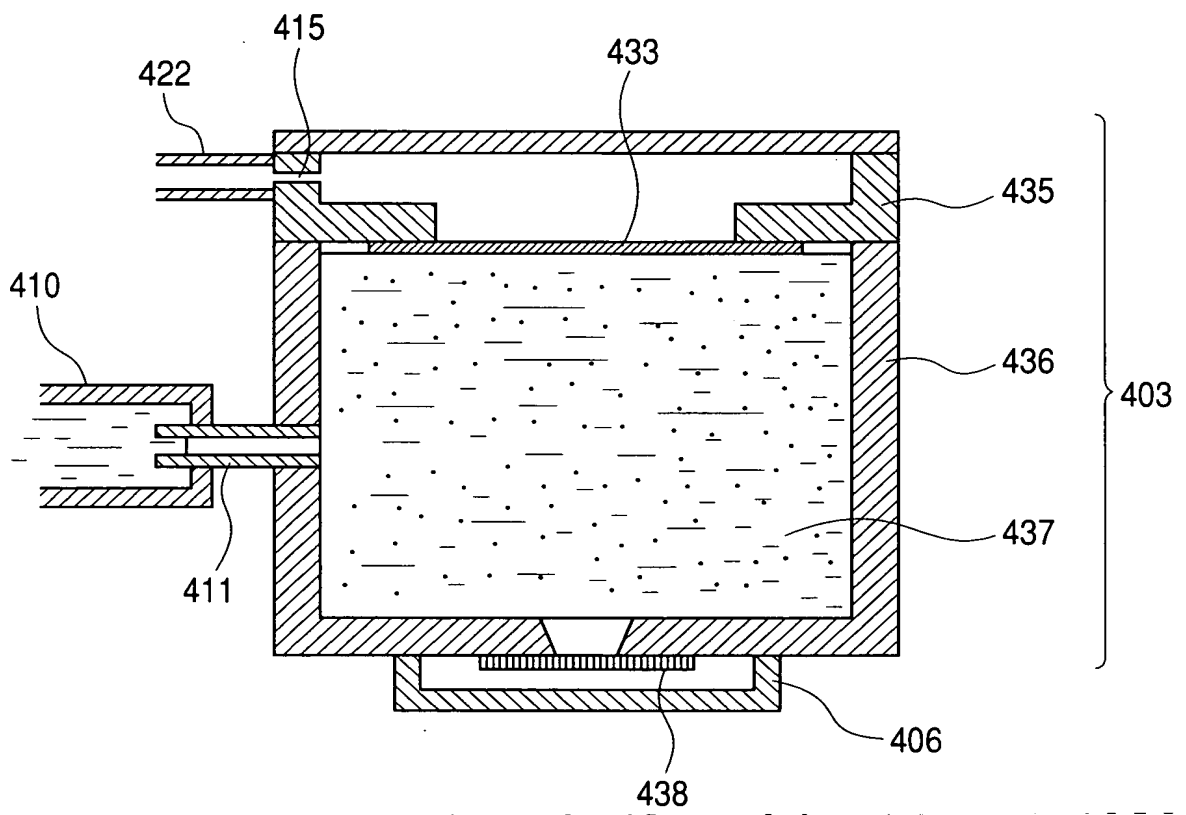


FIG. 15A FIG. 15B FIG. 15C

INK FILLING INK REFILLING

(FIRST TIME)

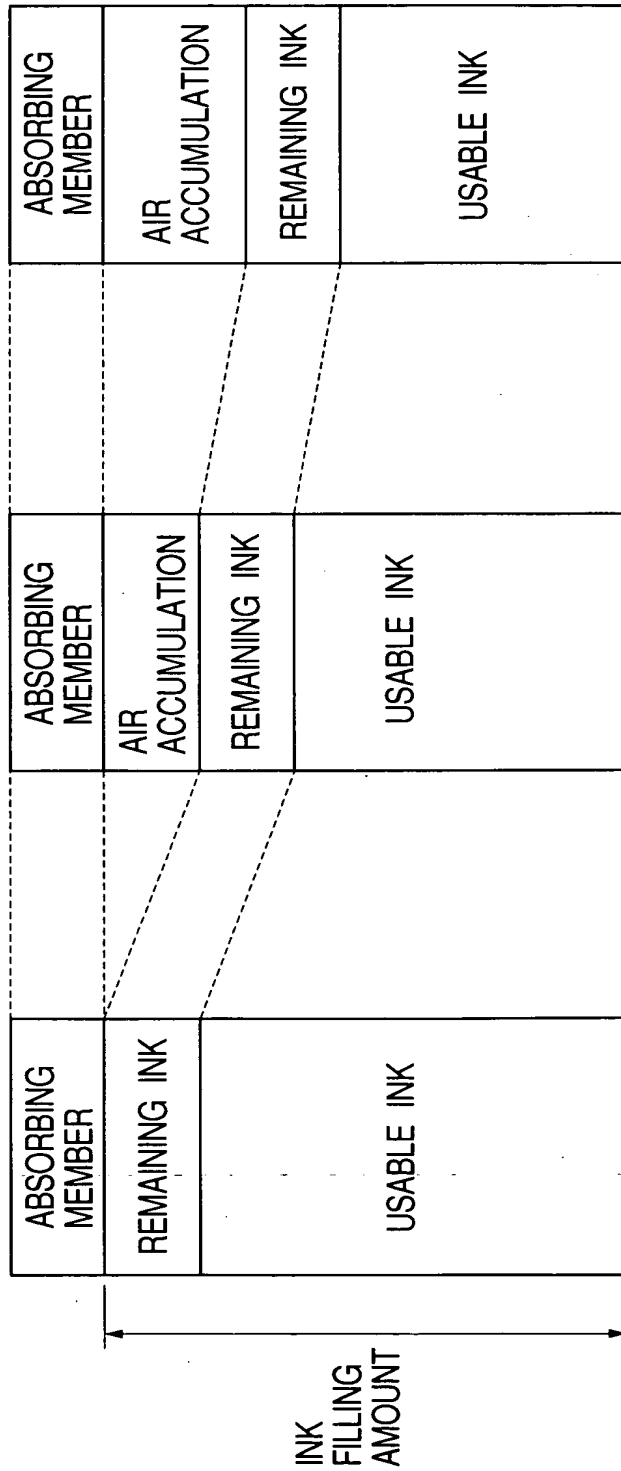


FIG. 16

RELATION OF V1, V2, V3	V1(cc)	V2(cc)	V3(cc)	INK USABLE AMOUNT (cc) AFTER 2000 TIMES	IMPROVEMENT RATE (%) OF INK USABLE AMOUNT RELATIVE TO V2=0
V3=6V1	0.021	0	0.12	0.05	0
	0.021	0.0105	0.12	0.058	16
	0.021	0.0147	0.12	0.078	56
	0.021	0.021	0.12	0.085	70
V3=20V1	0.021	0	0.42	0.208	0
	0.021	0.0105	0.42	0.226	9
	0.021	0.0147	0.42	0.301	45
	0.021	0.021	0.42	0.319	53
V3=25V1	0.021	0	0.525	0.22	0
	0.021	0.0105	0.525	0.229	4
	0.021	0.0147	0.525	0.234	6
	0.021	0.021	0.525	0.238	8

FIG. 17

